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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new assignments below.

FINANCE SECTION

**1. Name of conveying party(ies)**  
Naoki MUKAIDA  
  
Additional name(s) of conveying party(ies) attached?  Yes  No

**2. Name and address of receiving party(ies)**  
Name: TDK Corporation  
Internal Address: \_\_\_\_\_  
Street Address: 1-13-1, Nihonbashi, Chuo-ku  
City: Tokyo  
State: \_\_\_\_\_  
Country: Japan Zip: 103-8272  
Additional name(s) & address(es) attached?  Yes  No

**3. Nature of conveyance/Execution Date(s):**  
Execution Date(s) September 12, 2006  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Joint Research Agreement  
 Government Interest Assignment  
 Executive Order 9424, Confirmatory License  
 Other \_\_\_\_\_

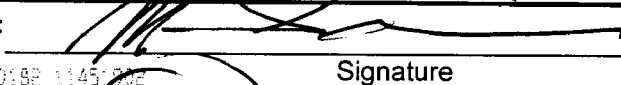
**4. Application or patent number(s):**  This document is being filed together with a new application.  
A. Patent Application No.(s)  
11/451,902 filed June 13, 2006  
B. Patent No.(s)  
  
Additional numbers attached?  Yes  No

**6. Total number of applications and patents involved:** one

**5. Name and address to whom correspondence concerning document should be mailed:**  
Name: Michael G. Shariff  
Internal Address: Howard & Howard Attorneys, P.C.  
The Pinehurst Office Center, Suite 101  
Street Address: 39400 Woodward Avenue  
City: Bloomfield Hills  
State: Michigan Zip: 48304-5151  
Phone Number: 248.723.0400/248.645.1483  
Fax Number: 248.645.1568  
Email Address: mgs@h2law.com

**7. Total fee (37 CFR 1.21(h) & 3.41)** \$ 40.00  
 Authorized to be charged by credit card  
 Authorized to be charged to deposit account  
 Enclosed  
 None required (government interest not affecting title)

**8. Payment Information**  
a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_  
b. Deposit Account Number 08-2789  
Authorized User Name \_\_\_\_\_

**9. Signature:**  \_\_\_\_\_  
Signature \_\_\_\_\_ Date October 23, 2006  
Name of Person Signing Michael G. Shariff Total number of pages including cover sheet, attachments, and documents: 4

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

**ASSIGNMENT**  
(Sole Inventor)

WHEREAS, I, Naoki MUKAIDA, (hereinafter referred to as Assignor), residing at c/o TDK Corporation, 1-13-1, Nihonbashi, Chuo-ku, Tokyo, 103-8272, JAPAN, have invented new and useful improvements in:

**MEMORY CONTROLLER, FLASH MEMORY SYSTEM,  
AND CONTROL METHOD OF FLASH MEMORY**

which is set forth in an application for Letters Patent filed on June 13, 2006 in the United States having Serial No. 11/451,902, and Attorney Docket No. 60,233-031.

AND WHEREAS, TDK Corporation, (hereinafter referred to as Assignee), having an address at 1-13-1, Nihonbashi, Chuo-ku, Tokyo, 103-8272, JAPAN, is desirous of acquiring the entire right, title and interest in and to said invention and said Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, be it known by all whom it may concern, that for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, the Assignor has assigned, sold and set over, and by these presents assign, sells and sets over unto the Assignee, its successors, legal representatives and assigns, for the territory of the United States of America and all foreign countries, the entire right, title and interest in and to said invention, said application for Letters Patent, including the right to file foreign patent applications corresponding to said application, and the right to claim the priority date of said United States patent application and any legal equivalents thereof, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and to any and all divisions, continuations, and continuations-in-part of said application, or re-issues or extensions of said Letters Patent or Patents prepared and executed by Assignor on even date herewith, the same to be held and enjoyed by the Assignee, as fully and entirely as the same would have been held by the Assignor had this Assignment and sale not been made.

AND the Assignor hereby covenants and agrees that the Assignor will at any time upon the request and at the expense of the Assignee execute and deliver any and all papers and do all lawful acts that may be necessary or desirable to perfect the title to said invention and to obtain Letters Patent therefor, and the Assignor hereby authorizes and requests the Commissioner of Patents to issue said Letters Patent to the said Assignee in accordance with this Agreement.

Dated: 2006/9/12

Naoki Mukaida

Naoki MUKAIDA

Please address all correspondence and telephone calls and, upon recordation, please return this document to:

**GREGORY D. DEGRAZIA**  
**HOWARD & HOWARD ATTORNEYS, P.C.**  
39400 Woodward Avenue, Suite 101  
Bloomfield Hills, Michigan 48304-5151

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**CERTIFICATE OF MAILING**

I hereby certify that the attached **Assignment Recordation documents** and fee are being deposited with the United States Postal Service as first-class mail, postage prepaid, in an envelope addressed to Mail Stop Assignments, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450 on **October 23, 2006**.

*Tracy L. Smith*

Tracy L. Smith